

RoHS Compliant Product

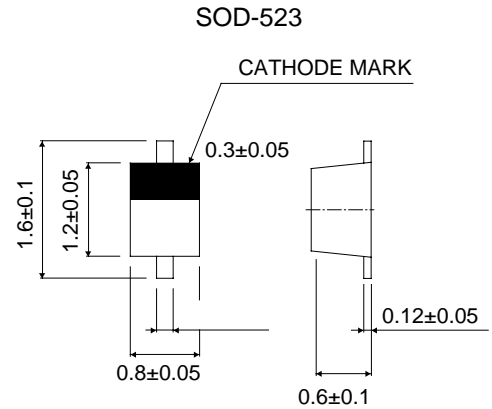
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

- High speed switching
- Low forward voltage

**MECHANICAL DATA**

- Terminals: Solder Plated, solderable MIL-STD-750
- Polarity: Indicated by Cathode Band
- Mounting Position: Any



Dimensions in millimeters

Marking : S3

**Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25 °C**

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V <sub>RM</sub>	45	V
DC reverse voltage	V <sub>R</sub>	40	V
Maximum (peak) forward current	I <sub>FM</sub>	300	mA
Average forward current	I <sub>O</sub>	100	mA
Surge current (10ms)	I <sub>FSM</sub>	1000	mA
Power dissipation	P <sub>D</sub>	150	mW
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55-125	°C
Operating temperature range	T <sub>opr</sub>	-40-100	°C

**Electrical Ratings @T<sub>A</sub>=25°C**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F1</sub>		0.28		V	I <sub>F</sub> =1mA
	V <sub>F2</sub>		0.36		V	I <sub>F</sub> =10mA
	V <sub>F3</sub>		0.54	0.60	V	I <sub>F</sub> =50mA
Reverse current	I <sub>R</sub>			5	μ A	V <sub>R</sub> =10V
Total capacitance	C <sub>T</sub>		18	25	pF	V <sub>R</sub> =0, f=1MHZ

